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31048 U.S. PTO

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UTILITY PATENT APPLICATION TRANSMITTAL

Commissioner for Patents  
Washington, D.C. 20231  
BOX PATENT APPLICATION

Attorney Docket No.: 010015  
Date: December 7, 2001  
Express Mail Label No.: EJ 831391949US  
Customer No.: 023696 Bar Code  
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PATENT TRADEMARK OFFICE

JC555 U.S. PTO  
10/017073  
12/07/01

Dear Sir:

Transmitted herewith for filing is the patent application of:  
Inventor(s): Nagabhushana T. Sindhushayana, Serguei A. Glazko, Peter J. Black  
For: FREQUENCY SEARCHER AND FREQUENCY-LOCKED DATA DEMODULATOR USING A PROGRAMMABLE ROTATOR

Enclosed are:

1. ☒ Patent application (16) total pages.
2. ☒ Drawings: ☐ Formal ( ) sheet(s) or ☒ Informal (4) sheet(s).
3. ☐ Declaration/Power of Attorney: ☐ Signed ☒ Unsigned
4. ☐ An Assignment ( ) pages and Recordation Form Cover Sheet.
5. ☐ A Preliminary Amendment ( ) pages.
6. ☐ Information Disclosure Statement (IDS):
  - a. ☐ PTO-1449
  - b. ☐ Copies of IDS Citations (number of citations: )
7. ☐ Other:

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	24 - 20	4	x \$18 =	\$72
Independent**	5 - 3	2	x \$84 =	\$168
Multiple Dependent Claim(s): <input type="checkbox"/> No <input type="checkbox"/> Yes			\$270	\$0
APPLICATION FILING FEE			\$740	\$740
			TOTAL FEE	\$980

\*If the number in column a is less than 20, enter 0 in column b.  
\*\*If the number in column b is less than 3, enter 0 in column b.

8. ☐ A check in the amount of \$ \_\_\_\_\_ is enclosed to pay the filing fee.
9. ☒ Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$980. The Commissioner is hereby authorized to charge payment of any additional fees which may be required, or credit any overpayment, to said Deposit Account No. 17-0026. A duplicate of this sheet is enclosed for fee processing.
10. ☒ The Commissioner is further hereby authorized to charge to said Deposit Account No. 17-0026, pursuant to 37 CFR 1.25(b), any fee whatsoever which may become properly due or payable, as set forth in 37 CFR 1.16 to 37 CFR 1.18 inclusive, for the entire pendency of this application without specific additional authorization.

Date: December 7, 2001

Signature: George C. Pappas  
George C. Pappas, Reg. No. 35,065  
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QUALCOMM Incorporated  
Attn: Patent Department  
5775 Morehouse Drive  
San Diego, California 92121-1714  
Telephone: (858) 651-1179  
Facsimile: (858) 658-2502

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In Re Application of:**  
**Sindhushayana, ET AL.**

**For: FREQUENCY SEARCHER AND FREQUENCY-  
LOCKED DATA DEMODULATOR USING A  
PROGRAMMABLE ROTATOR**

**Serial No.: UNKNOWN**

**Group Art Unit: UNKNOWN**

**Filed: HEREWITH**

**CERTIFICATE OF MAILING UNDER 37 CFR § 1.10**

Commissioner of Patents  
BOX PATENT APPLICATION  
Washington, D.C. 20231

Dear Sir:

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I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10 on the date indicated above and is addressed to the Commissioner of Patents, Box Patent Application, Washington, D.C. 20231. Enclosed herewith are the following documents: TRANSMITTAL LETTER; CERTIFICATE OF MAILING UNDER 37CFR § 1.10; PATENT APPLICATION IN 16 PAGES, INFORMAL DRAWINGS IN 4 pgs. and POSTCARD.

Darla D. Lallo

(Name)

(Signature)

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